### **Quick Reference Guide TESS 1 Wireless Installation Instructions**

- Pin# 1 Connect to chassis ground.
- Pin# 2 To ECM switched feed wire. (See Note 1)
- Pin# 3 Refer to the ECM Jump Configuration & ECM Set RPM Guide Sheet
- Pin# 4 To Emergency Hydraulic Pump Relay.
- Pin# 5 Tee into the starter wire from the key switch.
- Pin# 6 Not Used
- Pin# 7 To ECM switched feed wire. (See Note 1)
- Pin# 8 Refer to the ECM Jump Configuration & ECM Set RPM Guide Sheet.
- Pin# 9 Not Used
- Pin# 10- To the on/off switch (PTO),12 volt ignition fused. (15 amps) (See Note 3)
- 1)Note: The ECM switched feed wire has to be cut. The one wire will be joined to pin# 2 and the other wire will be joined to pin# 7.
- 2)Note: Interlocks can be install in pin# 1 and pin# 10.
- 3) Note: This 12v signal must stay latched at all times during the TESS I Wireless operation.

### ECM ENGINE JUMP CONFIGURATIONS

Positve Input Engines: Volvo, Mack, International Engines

Negative Input Engines: Caterpillar, Cummins, Detroit, Mercedes

Note: Use this Guide to correctly send the proper signal out to the ECM. If the correct signal is not send out it could cause damage to the ECM.

### Pin# 287 - Remote Engine Stop - No Jump

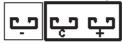
Pin# 4 - Emergency Hydraulic Pump - Determine the output needed whether it needs a Positive signal or a Negative signal to operate the E-Pump Solenoid.

Pin#5 - Remote Starter Output - Jump Positive

### Mini Fuse 3-15 Amp



### Positive Jump



RPM Control Co. 519-758-7901 1-866-519-9817



### DIAGRAM 1

## **ECM ENGINE CONFIGURATIONS**

Cat, Cummins, Detroit, Mercedes Volvo, International, Mack Positive Input Engines Negative Input Engines

**NOTE:** ECM Engine Configurations pertains to Throttle Relay Jumper Settings ONLY

### RELAY STATES

Engine Start, E-Stop, E-Pump MOMENTARY RELAYS

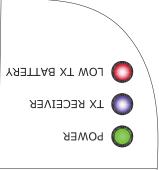
LATCHED RELAYS Ihrottle

information. programming instructions for further **NOTE:** Relay states are programmable refer to

## RELAY INDICATOR LED'S

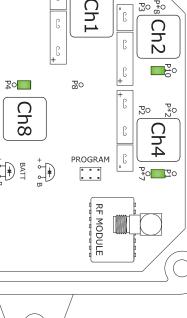
Indicates input signal received from

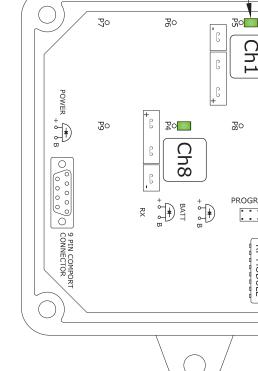
## LED INDICATORS



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### C C <sub>B</sub>o C C <u>유</u> C PROGRAM RF MODULE





# TESS 1 INTERNAL LAYOUT

## JUMPER SETTINGS

10 PIN CONNECTOR

amp. and up to a max. of 15 amps. DIAGRAM 1 describes the appropriate complete the appropriate signal jump. Fuse ratings should be a min. of 3 output signals (Ref. ECM Engine Configurations). Each relay has it's own are dependent on your vehicle ECM electrical systems and required accommodate positive & negative signal inputs/outputs. Jumper settings jumper locations for positive & negative system settings. jumper set directly below and a standard mini fuse is all that is required to The Tess 1 Wireless System is equipped with internal relay jumpers to

does not require a jumper. NOTE: The E-Stop Relay is a N/C circuit and for it's intended purpose

## LED INDICATORS

Green - This light will light up when ever the system is given a 12v dc signal and ground at the appropriate inputs on the

troubleshooting section in your Tess manual transmitter. When the light is flashing, the receiver is receiving Blue - This light will flash when you push any button on the data from transmitter. If you are pressing the button on the Transmitter, and blue LED is not flashing, refer to the

Low Power. You have to exchange battery. **RED** - When this light is flashing with beeping sound. The last ransmitter which sent a signal to the receiver has a battery with

# TESS 203 WIRING INSTRUCTIONS

### DESIGNATION

**P1** 

chassis ground engagement of the PTO to activate the TESS I Control System or to To ECM switched feed wire. (See Note 1) Tee into the ground side of the PTO light wire allowing the

P2 P3 P4 P5 P6 P7 P8 P10 To Emergency Hydraulic Pump Relay. Refer to the ECM Jump Configuration & ECM Set RPM Guide Sheet

Tee into the starter wire from the key switch

Not Used

To ECM switched feed wire. (See Note 1)

Refer to the ECM Jump Configuration & ECM Set RPM Guide Sheet.

Not Used

PTO On/Off switch (12 volt ignition fused 15 amps) See Note 3.

pin # 2 and the other wire will be joined to pin # 7. 1) Note: The ECM switched feed wire has to be cut. The one wire will be joined to

Note: Interlocks can be install in pin # 1 and/or pin # 10.

operation to allow for proper operation. 3) Note: This 12v signal must stay latched at all times during the TESS 1 Wireless

## Name: TESS I Wireless Controller System TESS203 Receiver Quick Reference Sheet

Customer:

Application / Product:

Internal receiver layout~jumper descriptions~Start Stop Throttle E~Pump

Revision Date:	
Revision Notes:	

Revision:

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Reference Dwg:	N/A	Dwg. Scale:	Layout	Drawing Type:	04 July 07
Dwg Number: 46-02-023010-XX	1 of 2	Sheet Number:	Brent Howard	Approved By:	Mark Stiles